














Recent Events

European Neutrino Meeting LBNF/DUNE

- 7-8 April 2016 at CERN
- “The meeting will focus on medium and long-term opportunities for European scientists and engineers to participate in LBNF/DUNE. ... The meeting will also discuss the formation of international partnerships to contribute to the different aspects of LBNF/DUNE.”
- <https://indico.cern.ch/event/493989/timetable/>
- 70 registrants

- 13:00 → 13:15 **Welcome** 🕒 15m
Speaker: Eckhard Elsen (CERN)
- 13:15 → 13:45 **LBNF/DUNE Status and International Context (political background to LBNF and DUNE, status in the US, where CERN fits in, etc.)** 🕒 30m 📍 503-1-001 - Council C...
Speaker: Nigel Lockyer
  European Meet 4-7...  European Meet 4-7...
- 13:45 → 14:05 **LBNF / Detector Infrastructure** 🕒 20m 📍 503-1-001 - Council Chamber
Speaker: Marzio Nessi (CERN)
  160407-LBNF.pdf  160407-LBNF.pptx
- 14:05 → 14:30 **The LBNF beamline** 🕒 25m 📍 503-1-001 - Council Chamber
Speaker: Alfons Weber (STFC - Rutherford Appleton Lab. (GB))
  DUNE_BeamLine_C...  DUNE_BeamLine_C...
- 14:30 → 14:45 **Introduction to DUNE (overview of DUNE and the collaboration organization)** 🕒 15m 📍 503-1-001 - Council Chamber
Speaker: Andre Rubbia (Eidgenoessische Tech. Hochschule Zuerich (CH))
  DUNE_EU_Introduc...
- 14:45 → 15:15 **The DUNE Science Programme (highlights of science programme, sensitivities, etc.)** 🕒 30m 📍 503-1-001 - Council Chamber
Speaker: Mark Andrew Thomson (University of Cambridge (GB))
  CERN_DUNE_Physi...



Neutrino - Latin America Workshop


27-28 April 2016 *Fermilab*
US/Central timezone

 Search

Overview

Timetable

Registration

 Registration Form

List of registrants

Getting to Fermilab

Internet Access

Visa Letter

Accommodations

Meeting Support

Organizing Committee

A number of current and future neutrino experiments already have a strong connection between Latin America and Fermilab, including MINERvA, NOvA, MINOS, CONNIE, LArIAT, SBND, and the Deep Underground Neutrino Experiment (DUNE). DUNE is being set up to be a truly international collaboration, with Fermilab as the host laboratory and with strong support from CERN. Two new liquid argon detectors, known collectively as protoDUNE, will be constructed over the next two years at the neutrino platform at CERN.

The success of future neutrino initiatives depends on strong engagement from the global scientific community. This meeting will focus on the opportunities for Latin American scientists. The meeting will also discuss the formation of international partnerships, building on the long-standing participation of Latin American Institutions in the global particle physics program at Fermilab, CERN and elsewhere.

Dates: from April 27, 2016 08:00 to April 28, 2016 19:00

Timezone: US/Central

Location: *Fermilab*
Room: One West

Neutrino Latin American Workshop

- Wednesday, April 27 to Thursday, April 28 at FNAL
- <https://indico.fnal.gov/conferenceDisplay.py?confId=11392>
- 65 registrants
- Thursday largely devoted to Dune

Agenda

<https://indico.fnal.gov/conferenceOtherViews.py?view=standard&confId=11392>

Dune talks

- Introduction to LBNF/DUNE
- LBNF and opportunities in accelerator science
- The DUNE detectors and opportunities for collaboration
- ProtoDUNE at CERN - possibilities for involvement
- Opportunities in software and computing
- DUNE neutrino oscillation physics
- Supernova neutrinos in DUNE
- Nucleon Decay in DUNE
- Opportunities for involvement in DUNE scientific programme
- How can theorists get involved in DUNE
- International partnerships for LBNF/DUNE


Engineering meeting on ProtoDUNE

Single phase

- 26 Apr to 29 Apr 2016
- <https://indico.cern.ch/event/520686/>
- Meeting focused on planning the ProtoDUNE installation
- Primarily technical

Engineering meeting on ProtoDUNE Single phase

 26 Apr 2016, 08:00 → 29 Apr 2016, 18:00 Europe/Zurich

 3179 (CERN)

 Jack Fowler Jr (Duke University (US)) , Maria Chamizo Llatas (State University of New York (US)) , Marzio Nessi (CERN)

Videoconference Rooms



Engineering_meeting_on_ProtoDUNE_Single_phase

Join



Wednesday, 27 April 2016



08:30 → 12:00 Visit to EHN1, ICARUS, bdg 182

 3h 30m

13:30 → 15:30 Cryogenic piping

- Cryogenic piping will be installed before the TPC. This will be installed in parallel with the installation of the TPC support structure.
- Upper manifolds will be installed and support from the cryostat and feed thrus.
- Floor manifolds will be installed in two parts. The vertical members will be installed from outside down through their ports. The lower manifolds will be attached and welded from the floor.
- Piping supports to the north wall.
- Piping supports to the floor.



NP-04_3d_view_int...

Sessions/Discussions

- Cryogenic piping
- TPC support
- APA, PD integration, CE integration, integrated test enclosure
- Integrated test enclosure discussion
- CPA
- Field cage top and bottom
- Trial Assembly Ash River
- Field cage end walls

Typical topics for discussion

- Packaging estimate.
- Handling equipment (including transport from SAS to working position).
- Method of assembly. Will we hang and assemble vertically or assemble horizontal and lift the column onto the rail?
- Electrical connections. Access required inside cryostat. Equipment required in the clean room to test connections.
- Any temporary structure or support necessary and the removal.
- Access needed and plans.
- Component weights and size
- Need for measurement of electrical connections after installation inside cryostat?

Photon Detector Workshop

Norm Buchanan
High Energy Physics

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DUNE Photon Detection Workshop

Meeting Description

We will be holding a DUNE photon detection workshop at CSU on May 17th and 18th, 2016. The meeting will take place over one and a half days with the first day (Tuesday) dedicated to meetings pertaining to PD planning and the 1/2 day dedicated to discussion of getting new groups up and running at their institutions.

The DUNE Collaboration meeting will take place immediately following the PD meeting at the South Dakota School of Mines and Technology in Rapid City, South Dakota. Instructions on getting to SDSMT follow.

There will be no registration fee for the meeting. There will be a meeting dinner on Tuesday evening. Details will be coming



Upcoming Events

May 17, 2016 –
May 18, 2016 (*All Day*)
[DUNE Photon Detection Workshop](#)

May 19, 2016 –
May 22, 2016 (*All Day*)
[DUNE Collaboration Meeting](#)

June 2, 2016 –
June 5, 2016 (*All Day*)
[NOvA Collaboration Meeting](#)

[View All Events](#)

Physics Performance and Requirements (09:00-10:00)

time	[id] title	presenter
09:00	[0] Physics Impact of Photon System	Dr. HIMMEL, Alexander
09:20	[1] Supernova, Ar-39 and the Photon System	SINEV, Gleb
09:40	[2] Revisiting photon detector requirements	BOLTON, Tim

Current Design (10:00-10:50)

time	[id] title	presenter
10:00	[3] Single Phase (20+5)	Mr. WARNER, David
10:25	[5] Dual Phase (20+5)	Dr. LUX, Thorsten

Electronics and Lessons Learned from 35 ton (11:20-12:30)

time	[id] title	presenter
11:20	[6] Electronics, Calibration, and Noise	Dr. DJURCIC, Zelimir
11:50	[7] Commissioning and Data Rate (15+5)	Dr. HIMMEL, Alexander
12:10	[8] Discussion of Electronics Requirements (15+5)	Dr. TOUPS, Matt

<https://indico.fnal.gov/conferenceDisplay.py?confId=12089>